

N/A.

1632

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/132,231DATE: 03/09/1999
TIME: 11:15:27

Input Set: I132231.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: HORWITZ, Marshall S.
2 LOEB, Lawrence A.
3 <120> TITLE OF INVENTION: METHOD FOR PRODUCING NOVEL DNA SEQUENCES WITH
4 BIOLOGICAL ACTIVITY
5 <130> FILE REFERENCE: 032425-001
6 <140> CURRENT APPLICATION NUMBER: US/09/132,231
7 <141> CURRENT FILING DATE: 1998-08-11
8 <150> EARLIER APPLICATION NUMBER: US 08/316,415
9 <151> EARLIER FILING DATE: 1994-09-30
10 <160> NUMBER OF SEQ ID NOS: 57
11 <170> SOFTWARE: PatentIn Ver. 2.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 17
14 <212> TYPE: DNA
15 <213> ORGANISM: Escherichia coli
16 <220> FEATURE:
17 <221> NAME/KEY: misc_difference
18 <222> LOCATION: (1)..(9)
19 <223> OTHER INFORMATION: Nucleotide at position 9 is n wherein n = a, c, g,
20 or t.
21 <400> SEQUENCE: 1
22 ccgaattcna tcgatcc 17
23 <210> SEQ ID NO 2
24 <211> LENGTH: 17
25 <212> TYPE: DNA
26 <213> ORGANISM: Escherichia coli
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (1)..(9)
30 <223> OTHER INFORMATION: Nucleotide at position 9 is n wherein n = c, g, or
31 t.
32 <400> SEQUENCE: 2
33 ccgaattcna tcgatcc 17
34 <210> SEQ ID NO 3
35 <211> LENGTH: 11
36 <212> TYPE: DNA
37 <213> ORGANISM: Escherichia coli
38 <400> SEQUENCE: 3
39 tgcggtagtt t 11
40 <210> SEQ ID NO 4
41 <211> LENGTH: 26
42 <212> TYPE: DNA
43 <213> ORGANISM: Escherichia coli
44 <400> SEQUENCE: 4

Does Not Comply
Corrected Diskette Needed

See p 5, 3, for

not "a" (as in
seq. 1
(2237) ?
sequence

W-->

W-->

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| | | |
|----|-----------------------------------------------------------------------------|----|
| 45 | aattcttggg cgcgcgtcgg cttgat | 26 |
| 46 | <210> SEQ ID NO 5 | |
| 47 | <211> LENGTH: 24 | |
| 48 | <212> TYPE: DNA | |
| 49 | <213> ORGANISM: Escherichia coli | |
| 50 | <400> SEQUENCE: 5 | |
| 51 | cgatcaagcc gacgcgcgcc caag | 24 |
| 52 | <210> SEQ ID NO 6 | |
| 53 | <211> LENGTH: 20 | |
| 54 | <212> TYPE: DNA | |
| 55 | <213> ORGANISM: Escherichia coli | |
| 56 | <400> SEQUENCE: 6 | |
| 57 | tttctgggtg catactcttc | 20 |
| 58 | <210> SEQ ID NO 7 | |
| 59 | <211> LENGTH: 26 | |
| 60 | <212> TYPE: DNA | |
| 61 | <213> ORGANISM: Escherichia coli | |
| 62 | <400> SEQUENCE: 7 | |
| 63 | tttctgggtg agacctcata ctcttc | 26 |
| 64 | <210> SEQ ID NO 8 | |
| 65 | <211> LENGTH: 20 | |
| 66 | <212> TYPE: DNA | |
| 67 | <213> ORGANISM: Escherichia coli | |
| 68 | <220> FEATURE: | |
| 69 | <221> NAME/KEY: misc_feature | |
| 70 | <222> LOCATION: (1)..(11) | |
| 71 | <223> OTHER INFORMATION: Nucleotide at position 11 is n wherein n = a, c, | |
| 72 | g, or t. | |
| 73 | <400> SEQUENCE: 8 | |
| 74 | ggggagatct nagatctggg | 20 |
| 75 | <210> SEQ ID NO 9 | |
| 76 | <211> LENGTH: 10 | |
| 77 | <212> TYPE: DNA | |
| 78 | <213> ORGANISM: Escherichia coli | |
| 79 | <400> SEQUENCE: 9 | |
| 80 | ccccagatct | 10 |
| 81 | <210> SEQ ID NO 10 | |
| 82 | <211> LENGTH: 47 | |
| 83 | <212> TYPE: DNA | |
| 84 | <213> ORGANISM: Escherichia coli | |
| 85 | <220> FEATURE: | |
| 86 | <221> NAME/KEY: misc_feature | |
| 87 | <222> LOCATION: (16)..(38) | |
| 88 | <223> OTHER INFORMATION: Nucleotides 16 to 38 are n wherein n = unspecified | |
| 89 | bases. | |
| 90 | <400> SEQUENCE: 10 | |
| 91 | cgccccgagg aacgtnnnnn nnnnnnnnnn nnnnnnnnag tactgct | 47 |
| 92 | <210> SEQ ID NO 11 | |
| 93 | <211> LENGTH: 46 | |
| 94 | <212> TYPE: DNA | |

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RAW SEQUENCE LISTING
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95 <213> ORGANISM: Escherichia coli
 96 <220> FEATURE:
 97 <221> NAME/KEY: misc_feature
 98 <222> LOCATION: (18)..(26)
 99 <223> OTHER INFORMATION: Nucleotides 18 to 26 are n wherein n = unspecified
 100 bases.
 101 <220> FEATURE:
 102 <221> NAME/KEY: misc_feature
 103 <222> LOCATION: (30)..(35)
 104 <223> OTHER INFORMATION: Nucleotides 30 to 35 are n wherein n = unspecified
 105 bases.
 W--> 106 <400> SEQUENCE: 11
 107 cgccccagga acgtttttnnn nnnnnnagcn nnnnnaaagt actgct 46
 108 <210> SEQ ID NO 12
 109 <211> LENGTH: 47
 110 <212> TYPE: DNA
 111 <213> ORGANISM: Escherichia coli
 112 <400> SEQUENCE: 12
 113 cgccccgagg aacgttttcc cgtcattgagc atcatcaaag tactgct 47
 114 <210> SEQ ID NO 13
 115 <211> LENGTH: 57
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Escherichia coli
 118 <400> SEQUENCE: 13
 119 caagaattct catgttttgac agcttatcat cgataagctt taatgcggta gtttattc 57
 120 <210> SEQ ID NO 14
 121 <211> LENGTH: 57
 122 <212> TYPE: DNA
 123 <213> ORGANISM: Escherichia coli
 124 <400> SEQUENCE: 14
 125 gttcttaaga gtacaaactg tcgaatagta gctatttcgaa attacgccat caaatag 57
 126 <210> SEQ ID NO 15
 127 <211> LENGTH: 19
 128 <212> TYPE: DNA
 129 <213> ORGANISM: Escherichia coli
 130 <220> FEATURE:
 131 <221> NAME/KEY: misc_feature
 132 <222> LOCATION: (1)..(15)
 133 <223> OTHER INFORMATION: Nucleotides 1 to 15 are n wherein n = unspecified
 134 bases.
 135 <400> SEQUENCE: 15
 W--> 136 nnnnnnnnnn nnnnnnnnnn 19
 137 <210> SEQ ID NO 16
 138 <211> LENGTH: 40
 139 <212> TYPE: DNA
 140 <213> ORGANISM: Escherichia coli
 141 <400> SEQUENCE: 16
 142 ttctcatgtt tgacagctta tcattcgataa gctttaattgc 40
 143 <210> SEQ ID NO 17
 144 <211> LENGTH: 40

what about these n's? They need <220>-<223>

*19
Hyphenation,
Not*

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| | | |
|-----|---------------------------------------------|----|
| 145 | <212> TYPE: DNA | |
| 146 | <213> ORGANISM: Escherichia coli | |
| 147 | <400> SEQUENCE: 17 | |
| 148 | gtgcagaaac gccgcagggg aaagaactgc gccttgacat | 40 |
| 149 | <210> SEQ ID NO 18 | |
| 150 | <211> LENGTH: 16 | |
| 151 | <212> TYPE: DNA | |
| 152 | <213> ORGANISM: Escherichia coli | |
| 153 | <400> SEQUENCE: 18 | |
| 154 | ggagccgccg atacgt | 16 |
| 155 | <210> SEQ ID NO 19 | |
| 156 | <211> LENGTH: 19 | |
| 157 | <212> TYPE: DNA | |
| 158 | <213> ORGANISM: Escherichia coli | |
| 159 | <400> SEQUENCE: 19 | |
| 160 | aaggcagggg gggcgacat | 19 |
| 161 | <210> SEQ ID NO 20 | |
| 162 | <211> LENGTH: 12 | |
| 163 | <212> TYPE: DNA | |
| 164 | <213> ORGANISM: Escherichia coli | |
| 165 | <400> SEQUENCE: 20 | |
| 166 | cccatgcaaa ta | 12 |
| 167 | <210> SEQ ID NO 21 | |
| 168 | <211> LENGTH: 10 | |
| 169 | <212> TYPE: DNA | |
| 170 | <213> ORGANISM: Escherichia coli | |
| 171 | <400> SEQUENCE: 21 | |
| 172 | ttccgggtcc | 10 |
| 173 | <210> SEQ ID NO 22 | |
| 174 | <211> LENGTH: 22 | |
| 175 | <212> TYPE: DNA | |
| 176 | <213> ORGANISM: Escherichia coli | |
| 177 | <400> SEQUENCE: 22 | |
| 178 | tcttgggcgc gcgtcggctt ga | 22 |
| 179 | <210> SEQ ID NO 23 | |
| 180 | <211> LENGTH: 18 | |
| 181 | <212> TYPE: DNA | |
| 182 | <213> ORGANISM: Escherichia coli | |
| 183 | <400> SEQUENCE: 23 | |
| 184 | gccccttttc tcccttga | 18 |
| 185 | <210> SEQ ID NO 24 | |
| 186 | <211> LENGTH: 23 | |
| 187 | <212> TYPE: DNA | |
| 188 | <213> ORGANISM: Escherichia coli | |
| 189 | <400> SEQUENCE: 24 | |
| 190 | cgccctgcc ttgcgcttgt tcc | 23 |
| 191 | <210> SEQ ID NO 25 | |
| 192 | <211> LENGTH: 25 | |
| 193 | <212> TYPE: DNA | |
| 194 | <213> ORGANISM: Escherichia coli | |

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| | | |
|-----|----------------------------------|----|
| 195 | <400> SEQUENCE: 25 | |
| 196 | gcgtgtcggg ccccggtgtct cttca | 25 |
| 197 | <210> SEQ ID NO 26 | |
| 198 | <211> LENGTH: 19 | |
| 199 | <212> TYPE: DNA | |
| 200 | <213> ORGANISM: Escherichia coli | |
| 201 | <400> SEQUENCE: 26 | |
| 202 | cgtggcgccc gtgcctttc | 19 |
| 203 | <210> SEQ ID NO 27 | |
| 204 | <211> LENGTH: 19 | |
| 205 | <212> TYPE: DNA | |
| 206 | <213> ORGANISM: Escherichia coli | |
| 207 | <400> SEQUENCE: 27 | |
| 208 | ctttcggttg cgggcgtgc | 19 |
| 209 | <210> SEQ ID NO 28 | |
| 210 | <211> LENGTH: 19 | |
| 211 | <212> TYPE: DNA | |
| 212 | <213> ORGANISM: Escherichia coli | |
| 213 | <400> SEQUENCE: 28 | |
| 214 | cgggtggcgg ccgtgtcgg | 19 |
| 215 | <210> SEQ ID NO 29 | |
| 216 | <211> LENGTH: 19 | |
| 217 | <212> TYPE: DNA | |
| 218 | <213> ORGANISM: Escherichia coli | |
| 219 | <400> SEQUENCE: 29 | |
| 220 | gggcggtctc ccggtcgtt | 19 |
| 221 | <210> SEQ ID NO 30 | |
| 222 | <211> LENGTH: 15 | |
| 223 | <212> TYPE: DNA | |
| 224 | <213> ORGANISM: Escherichia coli | |
| 225 | <400> SEQUENCE: 30 | |
| 226 | ggcgggtggcg gccgc | 15 |
| 227 | <210> SEQ ID NO 31 | |
| 228 | <211> LENGTH: 29 | |
| 229 | <212> TYPE: DNA | |
| 230 | <213> ORGANISM: Escherichia coli | |
| 231 | <400> SEQUENCE: 31 | |
| 232 | gcccttgctt tgggtggtctt gctcgcccc | 29 |
| 233 | <210> SEQ ID NO 32 | |
| 234 | <211> LENGTH: 26 | |
| 235 | <212> TYPE: DNA | |
| 236 | <213> ORGANISM: Escherichia coli | |
| 237 | <400> SEQUENCE: 32 | |
| 238 | tcttcggctg gccttcgggc gagagt | 26 |
| 239 | <210> SEQ ID NO 33 | |
| 240 | <211> LENGTH: 19 | |
| 241 | <212> TYPE: DNA | |
| 242 | <213> ORGANISM: Escherichia coli | |
| 243 | <400> SEQUENCE: 33 | |
| 244 | tgtggtgtct gcgcgccg | 19 |

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

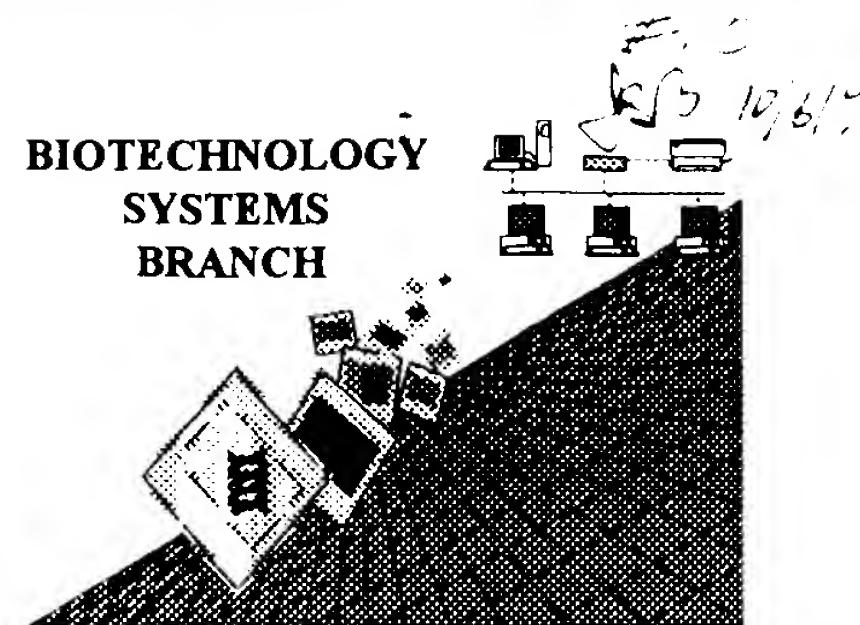
Input Set: I132231.RAW

| Line | ? Error/Warning | Original Text |
|------|---------------------------------------|-------------------------------------------|
| 22 | W "N" or "Xaa" used: Feature required | ccgaattcna tcgatcc |
| 33 | W "N" or "Xaa" used: Feature required | ccgaattcna tcgatcc |
| 74 | W "N" or "Xaa" used: Feature required | ggggagatct nagatctggg |
| 91 | W "N" or "Xaa" used: Feature required | cgccccgagg aacgtnnnnn nnnnnnnnnn nnnnnnnn |
| 107 | W "N" or "Xaa" used: Feature required | cgccccagga acgttttnnn nnnnnnagcn nnnnnaaa |
| 136 | W "N" or "Xaa" used: Feature required | nnnnnnnnnn nnnnnnnn |
| 261 | W "N" or "Xaa" used: Feature required | cgccgaggan nnnnnnnnnn nnnnnnnnnn nnagtact |
| 272 | W "N" or "Xaa" used: Feature required | ccgaggaann nnnnnnnnnn nnnnnnnnnn nagt |
| 283 | W "N" or "Xaa" used: Feature required | ccttnnnnnn nnnnnnnnnn nnnnnntca |
| 294 | W "N" or "Xaa" used: Feature required | ccgaggaacg ttttnnnnnn nnnagcnnnn nnaaagt |
| 305 | W "N" or "Xaa" used: Feature required | ccttgcaaaa nnnnnnnnt cgnnnnntt tca |

r:la.

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/132,231

Art Unit / Team No. : 1632

Date Processed by STIC: 3/9/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212